

# Weekly Report

## 1. Overview

This week, I haven't renewed any sentence of my paper too. This week, the things we've done is listed as following:

- a) The rebuilding and testing of a python program of map-matching

## 2. Result

### 2.1 The result of our rebuilt programmer



Fig. 1. Result of our rebuilt. The red lines represent a trajectory, and the green lines represent the road network. (1) A result by GPS points (2) A result by map-matching

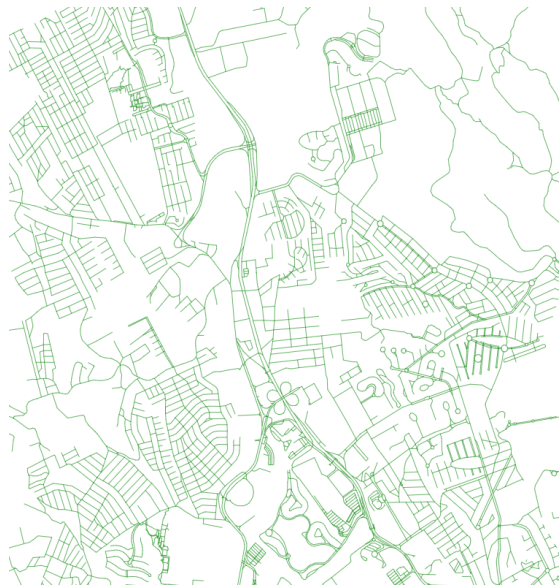


Fig. 2. Road network without trajectory

## 2.2 Residual work

(1) Testing some data to find the programmer deficiency and our opportunity  
(2) A idea we want to complete : a) For the area whose GPS points are numerous, we use neural network to decide whether a point is used to construct a polyline b) For the area whose GPS points are inadequate, we adopt adding point strategy, As shown in fig. 3, Point A and C are GPS points. We add a point B to reduce uncertainty of the shape of curve AC. The initial place of point B is the center between point A and point C. We will use neural network to decide its displacement to get its final position. The ideal position of point B is illustrated as a red point in fig. 3

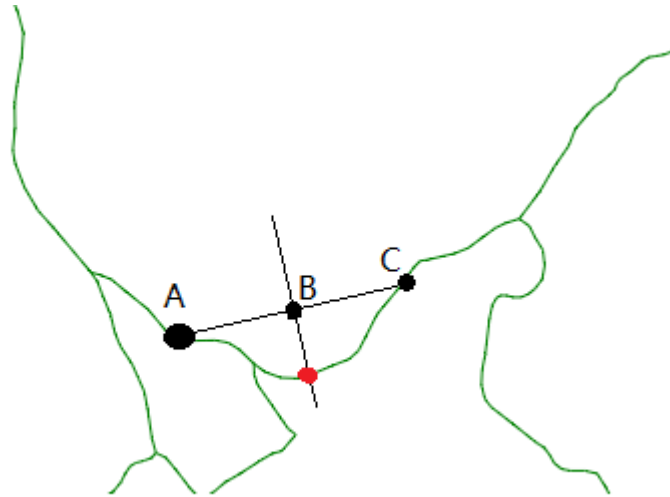


Fig. 3. Illustration of our idea

## 3. Paper Reading

《graph2vec: Learning Distributed Representations of Graphs》

## 4. Time Distribution

Date	Tasks	Duration
Mon. to Sun.	Reading and Programming	9:30-22:00

Working hour: more than 50 hours